

SEQUENCE LISTING

<100> IMHOF, BEAT ALBET  
AURRAND-LIONS, MICHEL

<120> VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR  
FUNCTION

<130> 11422/0264679

<140> 09/524,531

<141> 2000-03-13

<150> EP 99.200746.8

<151> 1999-03-11

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

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<222> (6)

<223> a, t, c, g, other or unknown

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<221> modified\_base

<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 1

tayagntgyn nngcytcyaa

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<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 2

taycrgtgyn nngcytcyaa

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<213> Artificial Sequence

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<220>  
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<223> a, t, c, g, other or unknown

<400> 3  
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<210> 6  
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16

<210> 7  
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer used  
for detection of JAM-2 transcript

<400> 7

gactcacaga caagtgac 18

<210> 8

<211> 16

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<223> Description of Artificial Sequence: primer used  
for detection JAM-2 transcript

<400> 8

caccctctctc actcgt 16

<210> 9

<211> 25

<212> DNA

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<223> Description of Artificial Sequence: primer for  
Hprt cDNA

<400> 9

gttgataca ggccagactt tggtg 25

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer for  
Hprt cDNA

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<210> 11

<211> 1943

<212> DNA

<213> Mus musculus

<400> 11

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aatccagcaa ccgaaaccca gtggtacatg aatttgaaag tgtggaattg tcttgcatca 180  
ttacggactc acagacaagt gaccctagga ttgaatggaa gaaaatccaa gatggccaaa 240  
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&lt;210&gt; 12

&lt;211&gt; 1631

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 12

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&lt;210&gt; 13

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 13

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Asn Leu Lys Ser Ser Asn Arg Asn Pro Val Val His Glu Phe Glu Ser
      35              40              45

Val Glu Leu Ser Cys Ile Ile Thr His Ser Gln Thr Ser Asp Pro Arg
      50              55              60

Ile Glu Trp Lys Lys Ile Gln Asp Gly Gln Thr Thr Tyr Val Tyr Phe
      65              70              75              80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly
      85              90              95

Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile
      100             105             110

Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu
      115             120             125

Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys
      130             135             140

Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys
      145             150             155             160

Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
      165             170             175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn
      180             185             190

Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala
      195             200             205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
      210             215             220

Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu
      225             230             235             240

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Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu  
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Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe  
260 265 270  
Ile Ser Ser Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His  
275 280 285  
Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His  
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Lys Ser Ser Phe Val Ile  
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<210> 14  
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<213> Mus musculus

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Lys Asp His Arg Gln Glu Val Thr Val Ile Glu Phe Gln Glu Ala Ile  
35 40 45  
Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp  
50 55 60  
Lys Lys Val Gly Gln Gly Val Ser Leu Val Tyr Tyr Gln Gln Ala Leu  
65 70 75 80  
Gln Gly Asp Phe Lys Asp Arg Ala Glu Met Ile Asp Phe Asn Ile Arg  
85 90 95  
Ile Lys Asn Val Thr Arg Ser Asp Ala Gly Glu Tyr Arg Cys Glu Val  
100 105 110  
Ser Ala Pro Thr Glu Gln Gly Gln Asn Leu Gln Glu Asp Lys Val Met  
115 120 125  
Leu Glu Val Leu Val Ala Pro Ala Val Pro Ala Cys Glu Val Pro Thr  
130 135 140  
Ser Val Met Thr Gly Ser Val Val Glu Leu Arg Cys Gln Asp Lys Glu  
145 150 155 160  
Gly Asn Pro Ala Pro Glu Tyr Ile Trp Phe Lys Asp Gly Thr Ser Leu  
165 170 175  
Leu Gly Asn Pro Lys Gly Gly Thr His Asn Asn Ser Ser Tyr Thr Asn  
180 185 190

Glu His Glu Ser Gly Ile Leu Gln Phe Asn Met Ile Ser Lys Met Asp  
195 200 205  
Ser Gly Glu Tyr Tyr Cys Glu Ala Arg Asn Ser Val Gly His Arg Arg  
210 215 220  
Cys Pro Gly Lys Arg Met Gln Val Asp Val Leu Asn Ile Ser Gly Ile  
225 230 235 240  
Ile Ala Thr Val Val Val Val Ala Phe Val Ile Ser Val Cys Gly Leu  
245 250 255  
Gly Thr Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser  
260 265 270  
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275 280 285  
Asp Phe Arg His Thr Lys Ser Phe Ile Ile  
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<212> PRT  
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Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
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Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
35 40 45  
Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
50 55 60  
Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
65 70 75 80  
Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
85 90 95  
Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
100 105 110  
Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
115 120 125  
Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
130 135 140  
Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
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Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
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Lys Ser Ser Phe Val Ile  
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<212> PRT  
<213> Homo sapiens

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35 40 45

Ala Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val  
50 55 60

Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr  
65 70 75 80

Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly  
85 90 95

Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr  
100 105 110



Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys  
115 120 125

Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met  
130 135 140

Gln Val Asp Asp Leu Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val  
145 150 155 160

Val Ala Leu Val Ile Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln  
165 170 175

Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser  
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Ser Phe Ile Ile  
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<212> DNA  
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<210> 18  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: sequence  
surrounding C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

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<222> (4)  
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Tyr Arg Cys Xaa Ala Ser  
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<210> 19  
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<220>  
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surrounding the C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

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surrounding the C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

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<210> 21  
<211> 300  
<212> PRT  
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<400> 21

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Ala Gln Ser Asp Val Gln Val Pro Glu Met Glu Ser Ile Lys Leu Thr
          35           40           45

Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val
 50           55           60

Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala
 65           70           75           80

Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Glu Gly Ile Thr Phe Ser
          85           90           95

Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu
          100          105          110

Glu Gly Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu
 115          120          125

Val Pro Pro Ser Lys Pro Thr Ile Ser Val Pro Ser Ser Val Thr Ile
 130          135          140

Gly Asn Arg Ala Val Leu Thr Cys Ser Glu His Asp Gly Ser Pro Pro
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Ser Glu Tyr Ser Trp Phe Lys Asp Gly Ile Ser Met Leu Thr Ala Asp
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Ala Lys Lys Thr Arg Ala Phe His Asn Ser Ser Phe Thr Ile Asp Pro
          180          185          190

Lys Ser Gly Asp Leu Tyr Phe Asp Phe Val Thr Ala Phe Asp Ser Gly
          195          200          205

Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
 210          215          220

Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
 225          230          235          240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
          245          250          255

Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
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<210> 22  
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<212> PRT  
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(endothelial cell line t-end)

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<222> (2)  
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<221> modified\_base  
<222> (6)  
  
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<400> 23  
tayagntgyn nngcyagyaa

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taycrgtgyn nngcyagyaa

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taytaytgyn nngcyagyaa

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